

SENIOR CHEMICAL ENGINEERS BUILD REFINERY

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is run in the refining of crude petroleum.

The still itself is an ordinary horizontal boiler type having two air condensers and one water condenser, and a run-back from each into the boiler. It is the product of many hours of hard work on the part of these men, and in fact, from pipe fitting to brick laying, the plant is a home product and the ability of the men to construct this still under the arising difficulties is nothing short of the very highest skill and technique. The reason for such a project is needless to state, for by taking active part in the construction of the still every man is perfectly familiar with the minutest detail and knows exactly the working order thru which the petroleum must go before it finally appears as by-products. While the process of building the plant covered a long period of time, the actual construction was remarkably short when the many unavoidable delays are taken into consideration; however, the work was

completed and everything was made ready for the big event—that event which was to be written down in the annals of College history—that event which was to work success or failure upon the part of the senior class of Chemical Engineering.

At eleven o'clock on Thursday morning of February 5th everything was prepared for action and by one o'clock the still was hot enough to distill over its first catch. The temperature at this point was 275 degrees Fahrenheit and when the temperature reached 325 degrees the first fraction, which comprises the low boiling point distillates, was stopped and the second fraction caught, thereafter after change of 50 degrees in temperature a catch was made. The first fraction was 1.45 percent of the total batch and sp. gr. was 54° Be.

Fractions of the following percent were taken:

375°—425°F.	3.29%	47.9° Be.
425°—475°F.	3.97%	44.° Be.
475°—525°F.	3.75%	40.8° Be.
525°—550°F.	2.54%	36.° Be.

Steam was then admitted and fractions were then taken from all condensers, as shown by the accompanying data:

	Wt. of Frct. in Grams.	Sp.Gr.Be.	P. C.
Cut No. 1 Air Condenser No. 1	1251	31.	5.4
Cut No. 2 Air Condenser No. 2	475	28.3	2.0
Cut No. 3 Air Condenser No. 3	1302		5.6
Cut No. 4 Air Condenser No. 4	1827		9.9
Cut No. 5 Air Condenser No. 5	765.5		3.7
Cut No. 1 Air Condenser No. 1	1192.5	32.4	5.21
Cut No. 2 Air Condenser No. 2	1198.0	25.4	5.22
Cut No. 3 Air Condenser No. 3	1217.5		5.3
Cut No. 4 Air Condenser No. 4	1063		4.6
Cut No. 5 Air Condenser No. 5	525		2.29
Cut No. 1 Water Condenser	1372	31.6	6.0
Cut No. 2 Water Condenser	1218.5	36.	5.5
Cut No. 3 Water Condenser	1073.5	36.	4.5
Cut No. 4 Water Condenser	972.0	31.5	4.24
Cut No. 5 Water Condenser	1069.0		4.7
Residue	2530.0		11.05

These fractions were the lubricating oil fractions, varying from Baume 32.4° to 23° and from the very lightest lubricating oil to the heavy grease-like solids.

While the still was running two temperature readings were taken; one on the oil itself and the other on the vapor. The temperature of the oil was recorded by an electric pyrometer and the temperature of the vapor with a recording thermometer. The temperature of the vapor varied from 0° up to 550°F. and the steam was admitted and the temperature was held constant until the end of the run. The temperature of the oil varied from 0° up to 925°F. when the still was allowed to cool off. When the temperature inside of the still reached 500°F. the still was opened and cleaned.

During the run the following duties were assigned to each man:

Thrasher, W. B. of Austin, Engineer.

SIGNAL CORPS 7, CD 0

In a gridiron battle between the Signal Corps and CD teams last Thursday the Signal Corps team put it over their opposing team and beat them by a score of 7 to 0. The game was all the time in favor of the Signal Corps except for once the CD team threatened to go down the field, but were stopped in time to cause no damage. Although the Signal Corps missed their fullback, Fish Murray, they played a good game. Fish Amberg took Murray's place, and although he has never played on the

Castillo, C. A. of Mexico, Fireman. Ballard, A. L. of Bryan, Fuel Supply.

Hudson, H. S. of Pearsall, Air Condenser No. 1.

Landon, R. M. of Kaufman, Air Condenser No. 1.

Taylor, E. of Waco, Air Condenser No. 2.

Hamilton, M. A. of Tyler, Water Condenser.

Shaer, R. of Chapel Hill, Water Condenser.

Wilson, E. S. of Denton, Temperature Records.

M. K. Thornton of College Station, Prof. of Industrial Chemistry, Superintendent.

After the run all were then changed into chemists and the usual routine work of the refinery laboratory was done.

The distillation was made using Mexican crude oil. At the next run of the still a sample of the Ranger Crude oil will probably be used.

team before and didn't know half of the signals he was the one that made the only score. Fish Walker and Capt. Allen were there with the good work again. The score was made in the first half when Fish Amberg received the ball at the wink of the eye of the quarterback and carried it through the left end and with the help of Fish Walker he forced his way by the CD bunch and carried the ball over the goal line. Towards the end of the game the Signal Corps threatened to score again but the whistle blew before the ball could be forced over.

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